

Operating Instructions Digital Photo Frame

Model No. **MW-20**



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Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.
Before connecting, operating or adjusting this product, please read the instructions completely. Please keep this manual for future reference.

If you have any questions contact
1-800-211-PANA (7262)

The warranty can be found on page 27.

Supplied Accessories



Please check and identify the supplied accessories.

Use numbers indicated in parentheses when asking for replacement parts. (Product numbers correct as of August 2010. These may be subject to change.)
To order accessories, refer to "Accessory Purchases (United States and Puerto Rico)" on page 27.

- ☐ 1 AC adaptor
(RFEA608P)



- ☐ 1 Remote control
(N2QAYC000032)

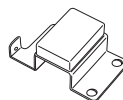


(Battery built-in)

- ☐ 1 Stand for vertical arrangement
(RFE0216)



- ☐ 1 Fitting for wall-mounting
(RFA3217)



- ☐ 1 Universal Dock for iPod
(RFE0223)



- ☐ 1 Backrest for Universal Dock
(RFE0225)



- ☐ 1 Backrest cushion
(RFE0226)



Included Installation Instructions

The installation should never be done by any other than a qualified installation specialist.

Before commencing work, carefully read these installation instructions and the operating instructions to ensure that installation is performed correctly.

(Please keep these instructions. You may need them when maintaining or moving this unit.)

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,

- DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- USE ONLY THE RECOMMENDED ACCESSORIES.
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

THE SOCKET OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

-If you see this symbol-

Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60°C (140°F) or incinerate.

Product Identification Marking is located on the bottom of unit.

SDXC Logo is a trademark of SD-3C, LLC.

Macintosh and Mac OS are registered trademarks or trademarks of Apple Inc.

Other names, company names and product names appearing in this document are the registered trademarks or trademarks of the respective developer companies. Note that TM and ® mark do not appear in this document in some cases.

Button-type battery (Lithium battery)

- Insert with poles aligned.
- Do not touch the terminals (+ and -) with metal objects.
- Do not recharge, disassemble, remodel, heat or throw into fire.
- Keep out of reach of children.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes.

Rinse eyes thoroughly with water, and then consult a doctor.

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, follow the attached installation instructions and use only shielded interface cables with ferrite core when connecting to computer or peripheral devices.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Declaration of Conformity

Trade Name: Panasonic

Model No.: MW-20

Responsible Party: Panasonic Corporation of North America
One Panasonic Way,
Secaucus, NJ 07094

Support Contact: Panasonic Consumer Electronics
Company 1-800-211-PANA (7262)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1)

This device may not cause harmful interference, and (2)

this device must accept any interference received, including interference that may cause undesired operation.



User memo:

DATE OF PURCHASE _____

DEALER NAME _____

DEALER ADDRESS _____

TELEPHONE NUMBER _____

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and keep for future reference.

MODEL NUMBER _____ MW-20

SERIAL NUMBER _____

Read this page first

Descriptions in these operating instructions

SD memory card, SDHC memory card, SDXC memory card, miniSD card, microSD card, microSDHC card and microSDXC memory card

→ **SD or SD card**

Playable media and file formats

■ Playable photos (JPEG)

(Playback may not be possible in some cases.)

File format	JPEG
Number of pixels	Max. 5120 × 3840 pixels Min. 64 × 64 pixels
Maximum file size	10 MB
Approximate number of folders practically usable	1000 folders
Approximate number of files practically usable	10000 files (1000 files per folder)

- Files in folders lower than the sixth hierarchy cannot be played back.
- Files in folder “SD_VIDEO” and “SD_AUDIO” cannot be played back.

■ Usable SD cards (as of August, 2010)

Panasonic SD cards are recommended.

<ul style="list-style-type: none"> • SD memory card • miniSD card* • microSD card* (8 MB to 2 GB) 	Formatted in FAT12 format or FAT16 format compliant with the SD standard
<ul style="list-style-type: none"> • SDHC memory card • microSDHC card* (4 GB to 32 GB) 	Formatted in FAT32 format compliant with the SD standard
<ul style="list-style-type: none"> • SDXC memory card • microSDXC card* (48 GB, 64 GB) 	Formatted in exFAT format compliant with the SD standard

* Be sure to attach the dedicated adaptor when using on this unit.

■ Types of iPod/iPhone that can be used on this unit (as of August, 2010)

Name	Memory size
iPod touch 3rd generation	32 GB, 64 GB
iPod nano 5th generation (video camera)	8 GB, 16 GB
iPod touch 2nd generation	8 GB, 16 GB, 32 GB
iPod classic	120 GB, 160 GB (2009)
iPod nano 4th generation (video)	8 GB, 16 GB
iPod classic	160 GB (2007)
iPod touch 1st generation	8 GB, 16 GB, 32 GB
iPod nano 3rd generation (video)	4 GB, 8 GB
iPod classic	80 GB
iPod nano 2nd generation (aluminum)	2 GB, 4 GB, 8 GB
iPod 5th generation (video)	60 GB, 80 GB
iPod 5th generation (video)	30 GB
iPod nano 1st generation	1 GB, 2 GB, 4 GB

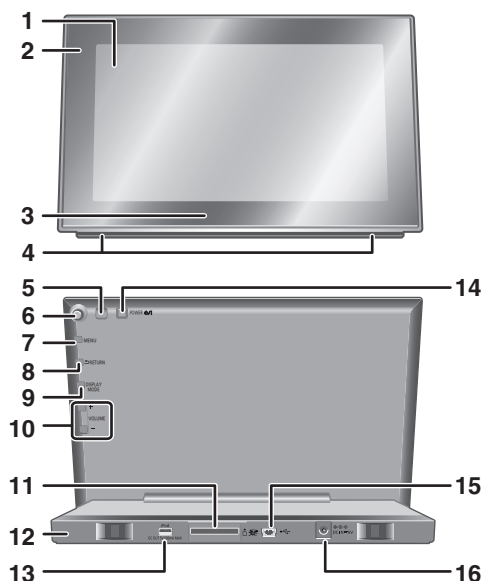
Name	Memory size
iPhone 4	16 GB, 32 GB
iPhone 3GS	16 GB, 32 GB
iPhone 3G	8 GB, 16 GB
iPhone	4 GB, 8 GB, 16 GB

Note

- Playback of motion pictures is available only for the type iPod®/iPhone compatible with video playback.
- You cannot record/save data onto the iPod/iPhone using this unit.
- Depending on the iPod/iPhone in use or its version, operations or displays may differ from the normal ones, but this will not affect the basic playback. Use the latest version if possible.

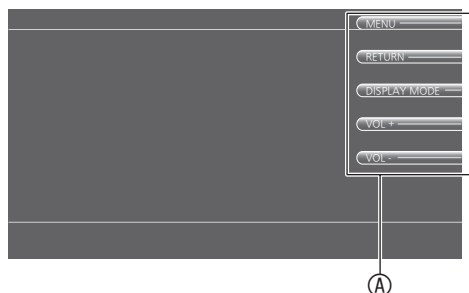
Control guide

Main unit



- 1 Display
- 2 Remote control signal sensor (→P5)
- 3 Panasonic Logo (→P21)
- 4 Speakers
- 5 Light sensor (→P20)
- 6 Cursor buttons (▲, ▼, ◀, ▶ and OK) Selecting to confirm
- 7 [MENU] Displaying/closing the menu screen
- 8 [RETURN] Returning to the previous screen, displaying the thumbnail screen (→P11), displaying track list (→P17)
- 9 [DISPLAY MODE] Displaying the display mode selection screen (→P8, 9)
- 10 [VOLUME +]/[VOLUME -] Adjusting the volume
- 11 SD card slot
- 12 Stand
- 13 Terminal for the Universal Dock (→P15)
- 14 [POWER] Standby/on switch
- 15 USB port (→P22)
- 16 AC adaptor terminal (→P7)

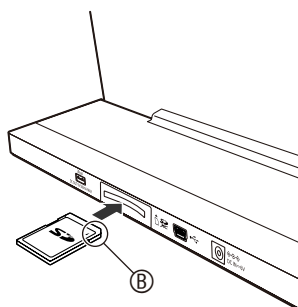
■ Button operation display on the main unit



- When [MENU], [RETURN] and [DISPLAY MODE] are pressed once, the guide (A) is displayed. When these buttons are pressed while the button guide is displayed, they will function normally as buttons.
- You can operate [VOLUME +] and [VOLUME -] regardless of the button guide display status.

Inserting an SD card

Back of product



Face (the side with the corner cut) (B) up and insert straight to the end.

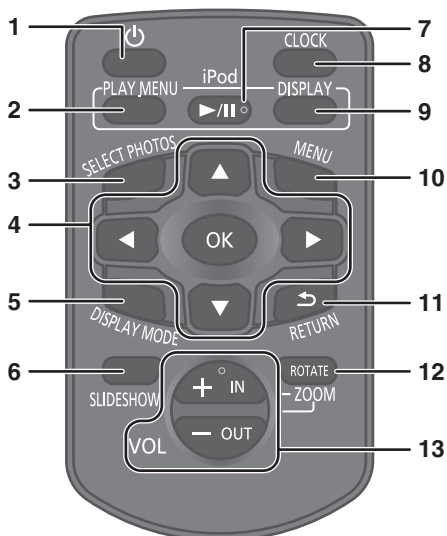
■ To remove an SD card

Press the center of the SD card. When the card slightly pops out, pull it out with your fingers.

- Never remove the SD card while the SD card is reading. Otherwise, the data may be destroyed.
- Keep the Memory Card out of reach of children to prevent swallowing.

This manual explains operations using the remote control in most sections.

Remote control



- 1 [⏻] Standby/on switch
- 2 [iPod/PLAY MENU] Displaying the iPod menu screen (→P16, 17)
- 3 [SELECT PHOTOS] Displaying the photo selection menu screen (→P10, 11)
- 4 [▲, ▼, ◀, ▶]/[OK] Selecting to confirm, switching the photos (→P11, 16), skipping/searching a track (→P17)
- 5 [DISPLAY MODE] Displaying the display mode selection screen (→P8, 9)
- 6 [SLIDESHOW] Viewing the slideshow (→P11), switching the remote control mode (→P21)
- 7 [iPod/▶/||] Play/Stop (Pause) (→P17)
- 8 [CLOCK] Switching to the clock screen (→P8), switching the remote control mode (→P21)
- 9 [iPod/DISPLAY] Switching to the iPod Display screen
- 10 [MENU] Displaying/closing the menu screen
- 11 [↶ RETURN] Returning to the previous screen, displaying the thumbnail screen (→P11), displaying track list (→P17)
- 12 [ROTATE/-ZOOM] Rotating photos (→P11), switching the volume button to the zoom in/out button (→P11)
- 13 [+ IN/VOL]/[- OUT/VOL] Adjusting the volume, zooming in/out photos (→P11)

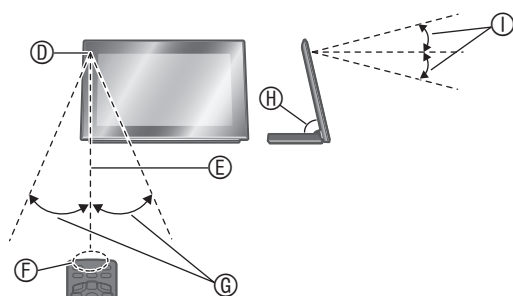
To use the remote control

Extract the insulation sheet (Ⓒ) before use.



- Dispose of the extracted insulation sheet properly.

Usable range

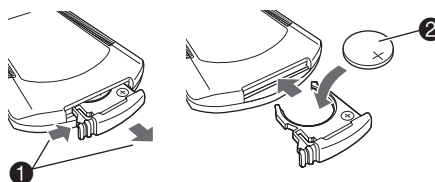


- Ⓓ Remote control signal sensor
- Ⓔ Within approx. 7 meters (23 feet) at the front
- Ⓕ Transmission window
- Ⓖ Approx. 30°
- Ⓗ Approx. 75°
- Ⓘ Approx. 20°

Caution

- Do not place an object between the signal sensor and the remote control.
- Do not place the signal sensor under direct sunlight or the strong light of an inverter fluorescent lamp.
- Keep the transmission window and the unit's sensor free from dust.

When inserting the battery



- ① Pull out while pressing.
- ② Button-type battery (Lithium battery) (CR2025): Face "+" upward.

- Do not heat or expose to flame.
- Do not leave the battery in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- Remove the battery if the remote control is not going to be used for a long period of time. Store in a cool, dark place.
- Keep the Button-type battery out of reach of children to prevent swallowing.

< For USA-California Only >

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.

See www.dtsc.ca.gov/hazardouswaste/perchlorate

Note

- When you set the unit in a cabinet, the remote controlling range may decrease depending on the thickness or colors of glass cabinet doors.

About the internal memory and SDs

About the internal memory

Back up the internal memory periodically.

It is recommended that you back up the internal memory to your PC or an SD card periodically to prevent the data from being lost due to static electricity, electromagnetic wave, damage, malfunctions, etc.

- Note that Panasonic assumes no liability for indemnification for any damage of the internal memory contents caused by use of this product, failures, malfunctions, etc.
- If this unit is repaired, the internal memory may be restored to the factory default conditions.

About SDs

Usable SD cards (→P3)

- Multimedia cards (MMC) cannot be used.
- The usable area will be less than the indicated capacity.
- **SDHC memory cards and SDXC memory cards can be used on equipment that supports respective cards. (SDHC memory cards can also be used on equipment that supports SDXC memory cards.)**

Using those cards with incompatible equipment may format the cards or delete recorded contents.

When using those cards on computer or equipment incompatible with SDXC memory cards, a message asking you to format the card may appear. Do not format the card because your important data will be deleted and cannot be restored.

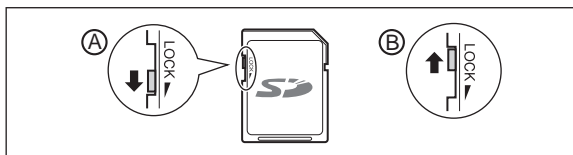
See the following site for using SDXC memory cards.
<http://panasonic.net/avc/sdcard/information/SDXC.html>

■ Write-Protect switch

When the switch is slid to the “LOCK” side, it is not possible to write or delete data on the card and format it. When the switch is unlocked, these functions become available.

Ⓐ Write-protect

Ⓑ When recording/editing



■ Handling cautions

- Be sure to store the card in the case when not in use.
- Do not disassemble or modify the card.
- Do not remove the attached label.
- Do not attach a new label or seal.
- Do not touch the metal terminal on the back side with hand or metal.

Cautions when disposing of/transferring SD cards and the unit

“Format” and “Delete” functions of this unit or a PC only change the file management information and cannot completely erase data stored on the SD card or in the internal memory of this unit.

- When disposing of/transferring SD cards, it is recommended that you physically destroy the SD card itself or completely erase the data on the SD card using a commercially available data erasing software for PCs.
- When disposing of/transferring the unit, perform physical format. (→below)

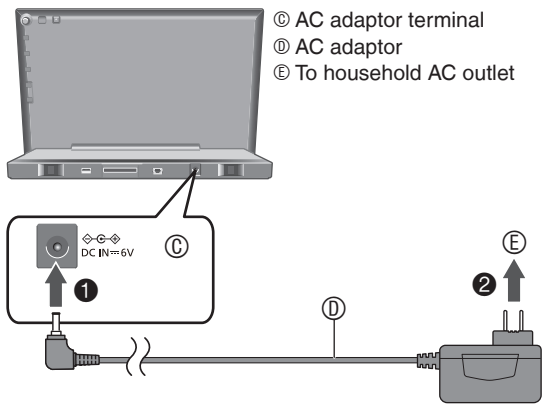
Manage data on the SD card and in the internal memory under your responsibility.

■ To completely delete data in the internal memory using the physical format (approx. 10 minutes)

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select “Settings Menu” and press [OK].
3. Press [▲, ▼, ◀, ▶] to select “Format Internal Memory” and press [OK].
4. Press [◀, ▶] to select “Yes” and press [OK].
5. Press and hold [MENU] for 3 seconds or more when “Photos set as protected will also be deleted. Do you really want to perform this operation?” is displayed.
6. Press [◀, ▶] to select “Yes” and press [OK].

Preparation for power source

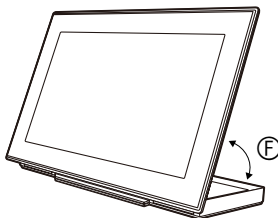
Back of product



Note

- While using this unit, the AC adaptor may become a little hot. This is not a malfunction.
- The included AC adaptor is for use with this unit only. Do not use it with other equipment. Also, do not use AC adaptor from other equipment with this unit.
- Do not use any other AC adaptors except the supplied one.

Installation of this unit



- Ⓕ Adjustable with the angle of between approx. 50 degrees and 75 degrees for comfortable viewing.

For better sound effects

The sound quality changes depending on the setup of this unit. Enjoy better sound quality according to the instructions below.

- Install the unit on a flat and stable place.
- Make the surrounding conditions of the speakers as balanced as possible. Make the surrounding reflection as low as possible.

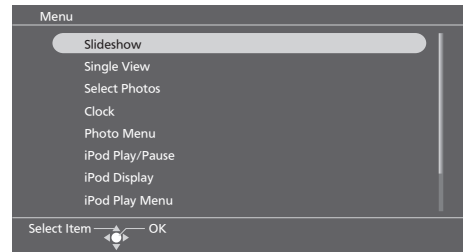
Note

- These speakers do not have magnetic shielding. Do not place a clock or magnetic cards (credit card, etc.) near this unit, or do not place this unit near a TV or a computer.
- Using this unit at high volume for a long period of time may deteriorate the speaker characteristic or extremely shorten speaker life.
- When the sound is distorted, turn down the volume even in the normal use. (Failure to do so may cause the speakers to be damaged.)

Setting the clock

This unit is equipped with the clock/calendar and timer functions. Set the time first.

1. Press [⏏].
 - You can also press [POWER ⏏/I] on the main unit.
2. Press [MENU].



3. Press [▲, ▼, ◀, ▶] to select "Settings Menu" and press [OK].



4. Press [▲, ▼, ◀, ▶] to select "Clock/Calendar Settings" and press [OK].
5. Press [▲, ▼] to select "Set Clock" and press [OK].
6. Press [◀, ▶] to select the items (Month, Day, Year, Hour, Minute and AM/PM*), and press [▲, ▼] to set.
7. Press [OK].
 - The clock starts from 00 second.

When the introduction screen for the time setting appears

If you attempt to operate a function that requires time setting while the time is not set, the introduction screen for the time setting appears.

1. Press [▲, ▼] to select "Set time" and press [OK].
2. Press [◀, ▶] to select the items (Month, Day, Year, Hour, Minute and AM/PM*), and press [▲, ▼] to set.
3. Press [OK].

* Only for the 12-hour display (→P20)

To display the clock

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select "Clock" and press [OK].

Note

- Period that can be set: January 2000 to December 2099.
- There is a small precision error of the clock. Periodical time correction is recommended.

Switching the screen display

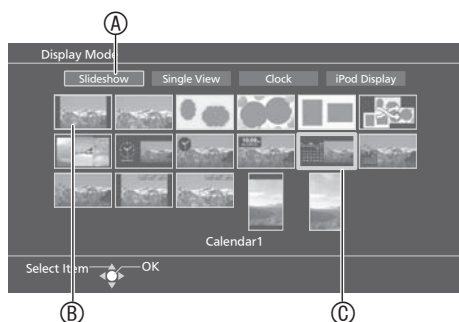
This unit has display categories of “Slideshow”, “Single View”, “Clock” and “iPod Display”.

Each display category has a variety of display modes. You can select a display according to your preferences and moods.

Factory settings are indicated with underlines.

<u>Slideshow</u>	Switching photos automatically
<u>Single View</u>	Displaying one photo fixed
<u>Clock</u>	Displaying date, clock or calendar
<u>iPod Display</u>	Displaying audio information, etc.

1. Press [DISPLAY MODE].



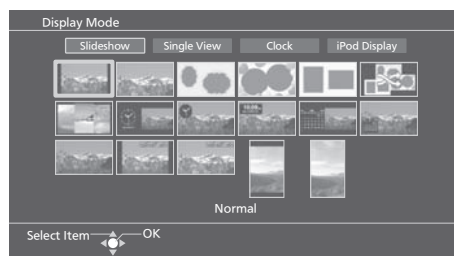
- Ⓐ Current display category
- Ⓑ Current display mode
- Ⓒ Cursor

2. Press [▲, ▼, ◀, ▶] to select the display category or display mode and press [OK].

- You can also select the display categories of “Slideshow”, “Clock” and “iPod Display” by pressing [SLIDESHOW], [CLOCK] and [iPod/DISPLAY] respectively.

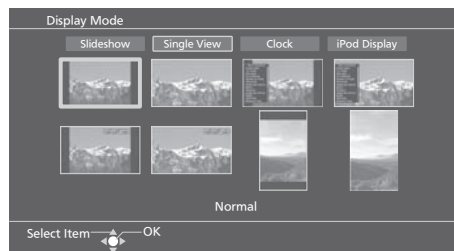
Types of display mode

■ Slideshow



<u>Normal</u>	Slideshow with 1 photo per slide in normal size
Full Screen	Slideshow with 1 photo per slide in full screen size
Frame 1 to 3	Slideshow with 2 or 3 framed photos per slide
Frame 4 (Random)	Slideshow with random photos using the frame 1 to 3
Multi	Slideshow with 2 or 3 photos per slide
Clock 1 to 3	Slideshow with 1 photo per slide displaying the clock
Calendar 1 to 3	Slideshow with 1 photo per slide displaying the calendar
Normal + Date Indication	Slideshow with 1 photo per slide displaying the date of photo*
Full Screen + Date Indication	Slideshow with 1 photo per slide in full screen size displaying the date of photo*
Normal (Vertical)	Slideshow with 1 photo per slide displayed vertically
Full Screen (Vertical)	Slideshow with 1 photo per slide displayed vertically in full screen size

■ Single View

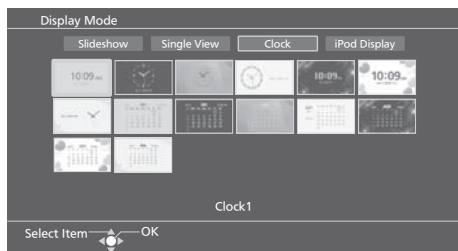


<u>Normal</u>	Displaying a photo in normal size
Full Screen	Displaying a photo in full screen size
Normal + Photo Info	Displaying a photo and photo information (folder name, file name, number of pixels, etc.)
Full Screen + Photo Info	Displaying a photo in full screen size and photo information (folder name, file name, number of pixels, etc.)
Normal + Date Indication	Displaying a photo and the date of photo*
Full Screen + Date Indication	Displaying a photo in full screen size and the date of photo*
Normal (Vertical)	Displaying a photo vertically
Full Screen (Vertical)	Displaying a photo vertically in full screen size

Displaying photos vertically

Photos are displayed vertically by switching the display mode.

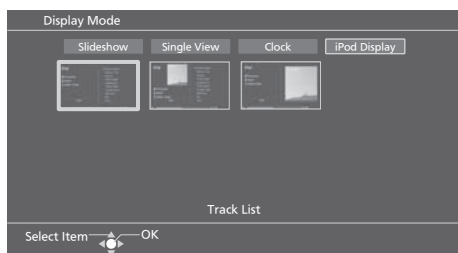
■ Clock



Clock 1 to 7	Displaying the clock
Calendar 1 to 7	Displaying the calendar

- To view a calendar of different month, press [◀, ▶] while the calendar is displayed.

■ iPod Display



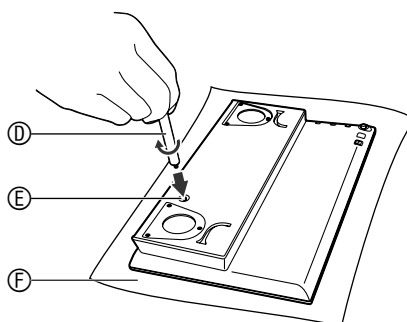
Track List	Displaying track list
Album Artwork + Track List	Displaying album artwork (an image attached with a track) and track list
Album Artwork	Displaying album artwork

When selecting “Videos” or “All (iPod display)” in the iPod menu

iPod Normal	Displaying the iPod/iPhone screen in normal size
iPod Full Screen	Displaying the iPod/iPhone screen with approx. 1.33 times the normal size

* If photo shooting date information is not present for some photos, the updated date information of photo files is displayed.

- Press [DISPLAY MODE].
- Press [▲, ▼, ◀, ▶] to select “Normal (Vertical)” or “Full Screen (Vertical)” in the “Slideshow” or “Single View” and press [OK].
 - The photo is displayed vertically.
- Turn the unit off and remove the AC adaptor from the unit.
- Fold the stand part.
- Insert the stand for vertical arrangement to the screw hole on the bottom face of this unit. Tighten the screw firmly to attach it.
 - ① Stand for vertical arrangement
 - ② Screw hole
 - ③ Cloths, etc.



- Connect the AC adaptor and turn the unit on.

■ To restore the horizontal arrangement

- Turn the unit off, remove the AC adaptor and the stand for vertical arrangement.
- Open the stand part of the unit, connect the AC adaptor and turn the unit on.

Note

- Use a cloth, etc. to prevent damage of the product or floor when attaching the stand for vertical arrangement.
- Check if the stand for vertical arrangement is screwed firmly. Otherwise, the stand may fall.

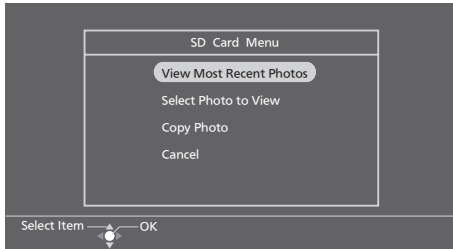
Selecting photos to view

You can play back photos on the SD or in the internal memory.

• Playable photos (JPEG) → P3

1. Insert the SD card containing photo files.

If the SD card is inserted while each display mode screen is displayed, the SD card menu screen appears.

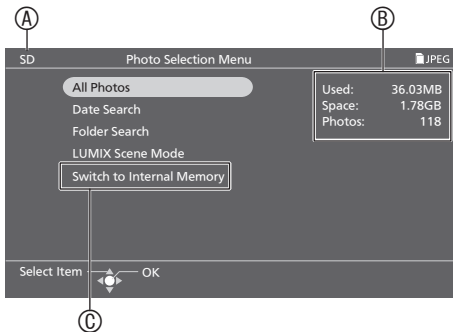


2. Press [▲, ▼] to select “Select Photo to View” and press [OK].

- If “View Most Recent Photos” is selected, the newly dated photo in “Date Search” is played back.

3. Press [▲, ▼, ◀, ▶] to select photo category (→right) and press [OK].

- Repeat the above step as necessary.



Ⓐ Media

Ⓑ Media information (→P11)

Ⓒ To switch to the internal memory

4. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].

- The photo is displayed with single view.

■ When the SD card menu screen is not displayed or the SD card is already inserted

Perform the following steps instead of the above steps 1 and 2.

1. Press [SELECT PHOTOS].

2. Press [▲, ▼] to select “Switch to SD Card” and press [OK].

Note

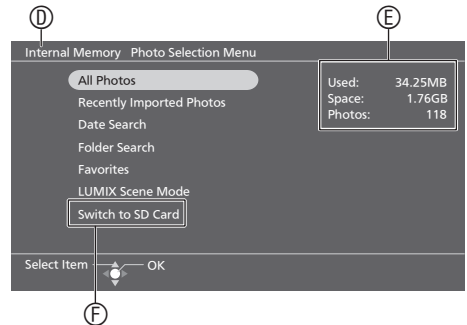
- After extracting the SD card, the selector automatically selects “Internal Memory”.

- Import photo data into the internal memory. (→P12)

The following explains how to select and play photos in the internal memory.

1. Press [SELECT PHOTOS].

- You can also select from “Select Photos” in the “Menu”.



Ⓓ Media

Ⓔ Media information (→P11)

Ⓕ To switch to the SD card

2. Press [▲, ▼] to select photo category (→below) and press [OK].

- Repeat the above step as necessary.

3. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].

- The photo is displayed with the single view.

Note

- Displaying photos may take time.

■ Photo categories

Factory setting is indicated with underline.

All Photos	Select from all photos in the SD or the internal memory.
Recently Imported Photos	(Only for the internal memory) Select from 100 photos imported to the internal memory recently. <ul style="list-style-type: none">• Photos directly copied from a computer are not included. (→P22)
Date Search	Select photos by shooting date.
Folder Search	Select from the folder.
SD Favorite 1 to 10*1	(Only for the SD) Select from photos registered as “Favorite” on the Panasonic digital camera LUMIX, etc. LUMIX: SD Favorite 4 <ul style="list-style-type: none">• For details on how to register “Favorite” on the LUMIX, etc., see those operating instructions.
Favorites (Favorite 1 to 10)	(Only for the internal memory) Select from photos registered as “Favorite” on this unit. (→P13)
LUMIX Scene Mode	Photos taken with a Panasonic digital camera LUMIX can be selected among the similar categories on this unit to those of LUMIX such as “Intelligent Auto Mode” and “Scene Mode”. ■ Scene mode categories Portrait etc./ Scenery etc./ Night Scenery etc./ Events/ Baby/ Pet/ Food/ Others

*1 Displayed only if photos are present.

Note

- The “SD Favorite” is classified based on the DPOF setting information, which means the Favorite set on units other than Panasonic products may be classified as “SD Favorite”.
- A date for Date Search can be selected from January 2000 to December 2099.
- If photo shooting date information is not present for some photos, the Date Search classifies such photos according to the updated date information of photo files.
- The “LUMIX Scene Mode” categories displayed on this unit may differ from the “LUMIX Scene Mode” categories displayed on Panasonic digital camera LUMIX.
- If photos have scene mode information which is not applicable, such photos are classified as “Others” of “LUMIX Scene Mode”.

Operations during play back

Playing back slideshow	Press [SLIDESHOW] when displaying with the single view or thumbnail view. <ul style="list-style-type: none"> • You can also select from “Slideshow” in the “Menu” by pressing [MENU].
Viewing single	Press [OK] while playing the slideshow. <ul style="list-style-type: none"> • You can also select from “Single View” in the “Menu” by pressing [MENU].
Selecting photos	Press [◀, ▶].
Selecting photos from the thumbnail*² view	1. Press [↵ RETURN]. 2. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
Selecting photos by scrolling*³	Press and hold [◀, ▶], when playing the photo or thumbnail view. <ul style="list-style-type: none"> • When you release your finger, scrolling stops and the photo displayed in the center is displayed with the single view.
Rotating photos	Press [ROTATE/-ZOOM], when displaying with the single view. <ul style="list-style-type: none"> • Each time you press, the photo rotates anticlockwise by 90°.

Zooming photos	When displaying with the single view 1. Press and hold [ROTATE/-ZOOM] for more than 1 second. (The photo is enlarged to ×1.5.) 2. Press [+ IN/VOL]. x2 → x3 → x4 <ul style="list-style-type: none"> • While zoomed, you can move to preferred position using [▲, ▼, ◀, ▶]. • Press [- OUT/VOL] to reduce the enlarged photo.
Confirming media information	Press [SELECT PHOTOS]. <ul style="list-style-type: none"> • The used capacity, remaining capacity and number of photos of the SD card and internal memory are displayed on the photo selection menu screen.

*² Thumbnail is a reduced image of multiple pictures to view them as a list.

*³ Scrolling is a function to display images with right and left movement.

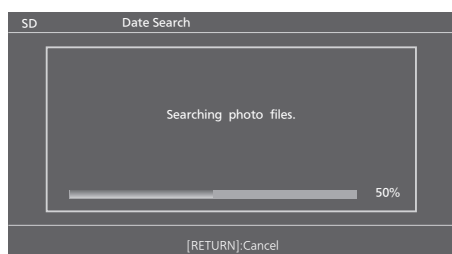
Note

- When photos are being played back in display mode “Frame 1 to 3” or “Multi” and if you press [◀, ▶] to switch photos, the combinations of photos are also changed.
- If some images cannot be displayed with the thumbnail view, “☐” is displayed.
- Depending on the photo, the scrolling thumbnail images may be displayed as “⌂”.
- Scrolling is not possible when the slideshow order is set to Random (→P14). Also, [◀] is disabled during playing back slideshow.
- If the unit is turned off or SD card is removed, the image rotation setting for SD is canceled.

Searching screen

The searching screen may be displayed in the following cases till the photo is displayed.

- When “Date Search” or “LUMIX Scene Mode” in the photo category is selected
- When “Date Search” or “LUMIX Scene Mode” has been selected when the unit is turned on



- Pressing [↵ RETURN] will stop the photo search and exit the above screen.

Note

- When the unit is turned on, if the above screen is canceled, the first photo in “All Photos” is automatically selected.

Editing photos

Copying photos

You can import and export photos between the internal memory (2 GB) and the SD card.

- Due to the restriction of the file system, the displayed internal memory capacity does not accord to the amount of file data that can be copied.
- If copied, the file names and folder names of photo are named as below.

Import	Example: If copied on October 4, 2010 Folder name: 101004_1 File name: 10040001.JPG
Export	Folder name: 100_PSDV File name: P1000001.JPG (Number indications are examples.)

- Insert the SD card. (If the SD card menu is displayed, select “Copy Photo” and perform the below operation from step 4.)
- Select the photo category. (→P10)

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select “Photo Menu” and press [OK].
3. Press [▲, ▼] to select “Copy Photo” and press [OK].
4. Press [▲, ▼] to select “Import from SD Card” or “Export to SD Card” and press [OK].
5. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
 - “☑” is displayed on the selected photos.
 - Repeat the above step as necessary.
 - To cancel, press [OK] again.
 - If you press [MENU], you can select “Select All” or “Clear All” of photos, or switch to single view to select photos.
6. Press [MENU], press [▲, ▼] to select “Copy” and press [OK].
7. Press [◀, ▶] to select “Yes” and press [OK].

■ To stop copying

Press [↵] RETURN].

- Photos already copied remain in the SD or the internal memory.

■ Compressing data when imported

The number of photos that can be copied will be increased.

1. Select “Import from SD Card with Compression” in step 4 (→left) and press [OK].
2. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
3. Press [MENU], press [▲, ▼] to select “Copy with Compression” and press [OK].
4. Press [◀, ▶] to select “Yes” and press [OK].

Note

- Even if photos are set to Favorite or protected, the information is not copied.
- If the photo media is “Internal Memory”, the newly created folder by copying is automatically selected.
- The size of the compressed photo cannot be recovered to the original data size.
- It may be impossible to compress data depending on photos.
- The audio will be stopped (paused) automatically, during playback.

Collecting favorite photos

(Only for the internal memory)

By registering photos to Favorite 1 to 10, you can play back registered photos only, or rearrange the order of photos.

- Select the photo category. (→P10)

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select “Photo Menu” and press [OK].
3. Press [▲, ▼] to select “Edit Photo” and press [OK].
4. Press [▲, ▼] to select “Add to Favorite” and press [OK].
5. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
 - “☑” is displayed on the selected photos.
 - Repeat the above step as necessary.
 - To cancel, press [OK] again.
 - If you press [MENU], you can select “Select All” or “Clear All” of photos, or switch to single view to select photos.
6. Press [MENU], press [▲, ▼] to select “Select Favorite Destination” and press [OK].
7. Press [▲, ▼, ◀, ▶] to select favorite photos to register and press [OK].

■ Rearranging the order of registered photos

1. After the above step 3, press [▲, ▼] to select “Edit Favorites” and press [OK].
2. Press [▲, ▼, ◀, ▶] to select favorite photos and press [OK].
3. Press [▲, ▼, ◀, ▶] to select photo to be moved and press [OK].
4. Press [MENU], press [▲, ▼] to select “Select Move Destination” and press [OK].
5. Press [▲, ▼, ◀, ▶] to select move destination and press [OK].

■ Canceling the registration

1. After the above step 3, press [▲, ▼] to select “Edit Favorites” and press [OK].
2. Press [▲, ▼, ◀, ▶] to select favorite and press [OK].
3. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
4. Press [MENU], press [▲, ▼] to select “Remove Favorite” and press [OK].

Note

- Up to 999 photos can be registered with “Favorites” respectively.
- Some photos may not be registered.
- The audio will be stopped (paused) automatically, during playback.

Deleting photos

(Only for the internal memory)

The deleted photos cannot be recovered.

- Select the photo category. (→P10)

1. Press [MENU].
 2. Press [▲, ▼, ◀, ▶] to select “Photo Menu” and press [OK].
 3. Press [▲, ▼] to select “Edit Photo” and press [OK].
 4. Press [▲, ▼] to select “Delete Files” and press [OK].
 5. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
 - “☑” is displayed on the selected photos.
 - Repeat the above step as necessary.
 - To cancel, press [OK] again.
 - If you press [MENU], you can select “Select All” or “Clear All” of photos, or switch to single view to select photos.
 6. Press [MENU], press [▲, ▼] to select “Delete” and press [OK].
 7. Press [◀, ▶] to select “Yes” and press [OK].
- To stop deleting
Press [↵] RETURN].

Note

- To delete completely, perform “Format Internal Memory” (→P21) or the physical format (→P6).
- Deleting all photos in the folder automatically deletes the folder itself.
- The audio will be stopped (paused) automatically, during playback.

Protecting photos

(Only for the internal memory)

You can protect photos to prevent them from being deleted by mistake.

- Select the photo category. (→P10)

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select “Photo Menu” and press [OK].
3. Press [▲, ▼] to select “Edit Photo” and press [OK].
4. Press [▲, ▼] to select “Set Protection” and press [OK].
5. Press [▲, ▼, ◀, ▶] to select the photo and press [OK].
 - “Ⓐ” is displayed on the selected photos.
 - Repeat the above step as necessary.
 - To cancel, press [OK] again.
 - If you press [MENU], you can select “Select All” or “Clear All” of photos, or switch to single view to select photos.
6. Press [MENU], press [▲, ▼] to select “End Protection Setting” and press [OK].

■ Canceling the protection

1. In the above step 5, press [▲, ▼, ◀, ▶] to select photos to cancel protection and press [OK].
2. Press [MENU], press [▲, ▼] to select “End Protection Setting” and press [OK].

Note

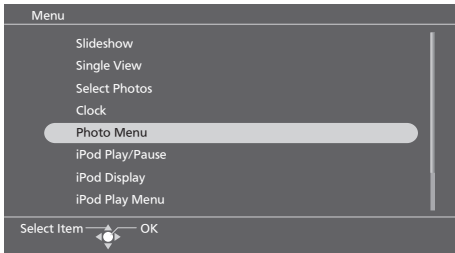
- Even if protection is set to photos, they will be deleted if the internal memory is formatted (→P21).
- The audio will be stopped (paused) automatically, during playback.

Photo playback settings

You can make the settings for image quality for photo playback, settings for slideshow playback method, etc. according to your preferences.

■ Basic operation

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select “Photo Menu” and press [OK].



3. Press [▲, ▼] to select “Image Quality Settings” or “Photo Playback Settings” and press [OK].



4. Press [▲, ▼] to select the item (→below, right) and press [◀, ▶] to select the setting.
5. Press [MENU] to close the menu screen.

■ Image quality settings

Factory settings are indicated with underlines>.

Image Quality Mode	Standard: Standard image quality Soft: Eye-friendly image quality Dynamic: Vivid image quality with clear distinction of bright and dark
Adjust Brightness	Brightness is adjusted with the range from “1” to “ <u>10</u> ”. <ul style="list-style-type: none">• When setting “1”, Panasonic Logo automatically turns off.

■ Photo playback settings

Factory settings are indicated with underlines.

Slideshow Order	Normal: Photos in the selected category are played in order of file names. Random: Photos in the selected category are played at random.
------------------------	---

Slideshow Effects

Fade:
Photos are switched gradually.

Motion:
Plays while enlarging and moving the photo up and down, right and left, and in the diagonal direction.

- When “Motion” is set, the “Slideshow Interval” setting is disabled.

Slide-in:
Photos are switched with flowing movement either from right or left.

Wipe 1/Wipe 2:
The displayed photo is switched to the next photo in wiping motion.

Dissolve:
Photos are switched as the next photo gradually overlaps the currently displayed photo.

Center Cross:
Cross-shaped switching from center toward outside

Blind:
The photos are switched by the horizontal band from top to bottom.

Checker Wipe:
Check-shaped switching from left to right

Random:
Various slideshow effects are used randomly for switching photos.

Slideshow Interval

5 sec/10 sec/30 sec/1 min/5 min/10 min/30 min/1 hour/3 hours/12 hours/24 hours
Change On The Hour:
Photos are switched on the hour every hour.

Change Daily:
Photos are switched when the calendar date is changed.

Sync Music:
Photos are switched every time “Music” or “Videos” on the iPod/iPhone is switched.

Color Effects

Setting a color tone of photo for the single view or slideshow playback.

Color/Black and White/Sepia

- When photos are displayed with the thumbnail view, they are displayed with the original color tone.

Note

- When the display mode for “Slideshow” is set to “Multi” (→P8), the “Motion” and “Slide-in” effects cannot be selected.
- When the “Slideshow Effects” is set to “Motion” or “Slide-in” with the display mode set to “Multi”, the “Fade” effect is automatically assigned to “Motion” and “Slide-in”.
- When the slideshow playback is performed for the small number of photos with a short interval, the photos may not be normally displayed.
- Reading photos may require longer time than the set slideshow interval. Also, when the display mode for “Slideshow” is set to “Frame 1 to 3” (→P8), it may require longer time than the set slideshow interval.

Connecting/Recharging an iPod/iPhone

A compatible iPod/iPhone can be connected to this unit.

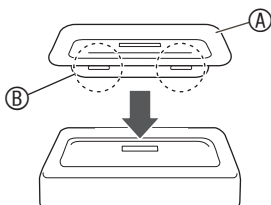
No warranty is provided against any trouble about the iPod/iPhone data management.

Usable iPods/iPhones → P3

- Turn the unit off.
- Turn off the iPod/iPhone before connecting.
- Remove the iPod/iPhone if it is in the iPod/iPhone case.

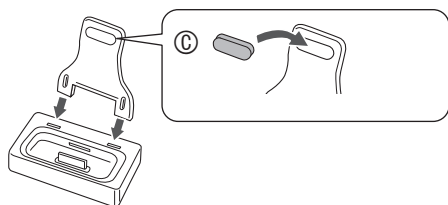
1. Attach the Dock Adaptor (supplied with iPod/iPhone)* to the Universal Dock for iPod.

- Insert the hook (B) of the Dock Adaptor (A) from front and push in until it clicks.



* When the Dock Adaptor is not supplied with the iPod/iPhone, purchase it from Apple Inc.

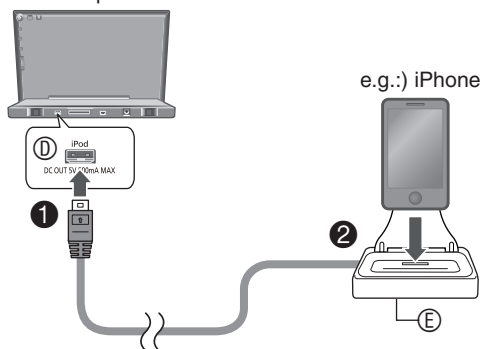
2. (Only when connecting an iPod touch/iPhone) Attach the Universal Dock backrest to the Universal Dock for iPod.



© When you use the iPod touch, attach the backrest cushion.

3. Connect the Universal Dock for iPod with this unit (D) and insert the iPod/iPhone main unit to the Universal Dock for iPod (E).

- ① Terminal for the Universal Dock
- ② Universal Dock for iPod
- Back of product



- Bringing the unit and the Universal Dock for iPod closer to each other may weaken the sensitivity of electric wave reception for iPhone. Using them apart from each other is recommended.

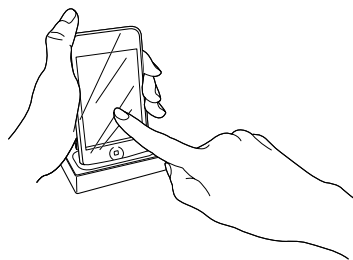
Recharging starts when the iPod/iPhone is connected.

When the unit is off, "iPod Charging" appears on the right bottom of the unit's screen.

(The recharging indicator may not disappear depending on the type of iPod/iPhone even if the recharging is complete.)

■ When operating iPod touch or iPhone

Support the iPod/iPhone and Universal Dock for iPod with hand to prevent them from falling down.



Note

- The included Universal Dock for iPod is exclusively for this unit's use. Do not use it with other equipment. Do not use other connection devices for connecting iPod/iPhone to this unit.
- Before connection, make sure to confirm that there is no dust or foreign objects stuck to the connection part.
- Insert/remove the iPod/iPhone slowly. Otherwise, the connector may be damaged.
- Disconnect the iPod/iPhone from the Universal Dock for iPod after recharging is complete when you will not use it for a long period of time. Even if the battery is discharged naturally after recharging, the battery is not additionally charged.
- If you connect iPods other than iPod touch/iPhone, make sure to remove the Universal Dock backrest.
- Make sure to turn the main unit off before connecting/disconnecting the Universal Dock for iPod.
- The iPod/iPhone cannot be charged while connecting with the computer.
- Please read the operating instructions supplied with the iPod/iPhone.
- Keep the backrest cushion out of reach of children to prevent swallowing.

Made for

iPod iPhone

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

Playing back photos, etc. stored on the iPod/iPhone

You can view photos, videos, YouTube motion pictures, music, etc. on the display of this unit by operating the iPod/iPhone.

- Turn down the volume of this unit.
- Connect the iPod/iPhone.

1. Press [iPod/PLAY MENU].

- You can also select from "iPod Play Menu" in the "Menu" by pressing [MENU].

2. Press [▲, ▼] to select "All (iPod display)" and press [OK].



- "Please refer to the iPod display for operations." appears on the screen.

3. Play back photos, videos, YouTube motion pictures, or music, etc. by operating the iPod/iPhone.

■ When operating on the main unit

Music	→right
Videos	→P17
List of Currently Playing Tracks	The track list is displayed during audio playback. (→right)

■ Operations available on the remote control of this unit

Switching photos, etc.	Press [◀, ▶].
Select and OK on the menu screen, etc.	Press [▲, ▼] to select and press [OK].

Playing music on an iPod/iPhone

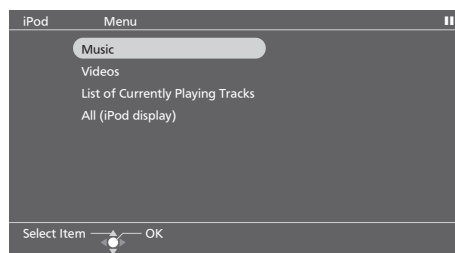
Operating this unit enables you to listen to the music on an iPod/iPhone connected to this unit.

- Turn down the volume of this unit.
- Connect the iPod/iPhone.

1. Press [iPod/PLAY MENU].

- You can also select from "iPod Play Menu" in the "Menu" by pressing [MENU].

2. Press [▲, ▼] to select "Music" and press [OK].



3. Press [▲, ▼] to select the track selection method (→P17) and press [OK].

- Repeat the above step as necessary.

4. Press [▲, ▼, ◀, ▶] to select tracks and press [OK].

- Playback will start.

■ iPod Display screen (Album Artwork + Track List)



- Ⓐ Album Artwork (When there is no information, a temporary image is displayed.)
- Ⓑ Album name
- Ⓒ Artist name
- Ⓓ Track name
- Ⓔ Playback status
- Ⓕ Repeat: ALL
- Ⓖ One
- Ⓗ Shuffle: Songs
- Ⓖ Albums
- Ⓖ Current track number/Total number of tracks
- Ⓖ Elapsed playback time



■ iPod/iPhone track selection menu for “Music”

Playlists	Searching from all playlists
Artists	Searching from artist names
Albums	Searching from album titles
Songs	Searching from all tracks registered to the iPod/iPhone
Podcasts	Searching from episodes of radio program obtained at iTunes store
Audiobooks	Searching from titles in Audiobooks purchased at iTunes store or “audible.com”

■ Operations available on the remote control of this unit during audio playback

Stop (Pause)	Press [iPod/▶/]. • Press again to resume.
Skip	While displaying “iPod Display”, press [◀, ▶].
Fast backward/Fast forward (Search)	While displaying “iPod Display”, press and hold [◀, ▶].
Adjusting the volume	Press [+ IN/VOL], [- OUT/VOL]. • 0 (Min.) to 20 (Max.) • You can also press [VOLUME +]/[VOLUME -] on the main unit.
Return to track list	While displaying “iPod Display”, press [↶ RETURN].
Shuffle Tracks or albums are played at random.	1. Press [MENU]. 2. Press [▲, ▼, ◀, ▶] to select “Audio Menu” and press [OK]. 3. Press [▲, ▼] to select “Play Mode” (→below) and press [◀, ▶] to select the setting. 4. Press [MENU].
Repeat • Selecting from “Off”, “One” and “All”	1. Press [MENU]. 2. Press [▲, ▼, ◀, ▶] to select “Audio Menu” and press [OK]. 3. Press [▲, ▼] to select “Repeat” and press [◀, ▶] to select the setting. 4. Press [MENU].

■ Play Mode

Shuffle: Off	Normal playback.
 Shuffle: Songs	Songs in the selected playlist are played at random.
 Shuffle: Albums	Albums in the album playlist are played at random. (The tracks in the album are played back in the proper order.)

Note

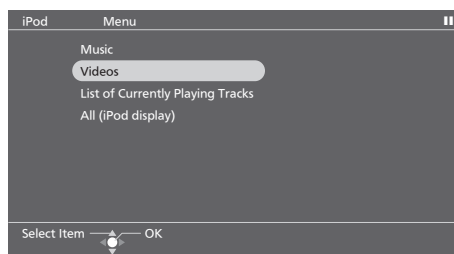
- The settings for the playback position, shuffle playback and repeat playback remain unchanged even if the iPod/iPhone is disconnected from this unit. Also, the settings made on the iPod/iPhone before connected to this unit remain unchanged.
- If video is played back (→below), the Shuffle setting may automatically become “Off”.
- When the play mode is switched, the track list on the “iPod Display” screen may be different from the tracks played back. If this occurs, select tracks from the track selection menu again.

Playing video on an iPod/iPhone

When an iPod/iPhone compatible with video playback is connected to this unit, you can view videos on this unit.

- Turn down the volume of this unit.
- Connect the iPod/iPhone.

1. Press [iPod/PLAY MENU].
• You can also select from “iPod Play Menu” in the “Menu” by pressing [MENU].
2. Press [▲, ▼] to select “Videos” and press [OK].



3. Press [▲, ▼, ◀, ▶] to select the type of videos and press [OK].
4. Press [▲, ▼, ◀, ▶] to select the video and press [OK].
• Video playback will start.

■ Operations available on the remote control of this unit during playback of motion pictures

Stop (Pause)	Press [iPod/▶/]. • Press again to resume.
Skip	While displaying “iPod Display”, press [◀, ▶].
Fast backward/Fast forward (Search)	While displaying “iPod Display”, press and hold [◀, ▶].
Adjusting the volume	Press [+ IN/VOL], [- OUT/VOL]. • 0 (Min.) to 20 (Max.) • You can also press [VOLUME +]/[VOLUME -] on the main unit.


Audio playback settings

You can make the settings for display at the time of audio playback of the iPod/iPhone. You can also set the sound quality for your preference.

Basic operation

1. Press [MENU].

2. Press [▲, ▼, ◀, ▶] to select “Audio Menu” and press [OK].



3. Press [▲, ▼] to select the item (→below) and press [◀, ▶] to select the setting.

4. Press [MENU] to close the menu screen.

Factory settings are indicated with underlines>.

Play Mode	→P17
Repeat	→P17
Audio Information	Displays audio information currently playing while the display categories other than “iPod Display” are set. On: Display Off: No display
Equalizer	Flat: When the sound quality effect is not used. Heavy: Emphasizes the bass sound with sharp sound quality. Clear: Emphasizes the treble range with clear sound quality.
iPod Information	Displays the model name and version of the connected iPod/iPhone.

Using the timer

The power is automatically turned on at the set time and photos or audio are played. The power is automatically turned off at the end time.
“Timer 1”, “Timer 2” and “Timer 3” can be set.
The following explains the case when setting “Timer 1” as an example.

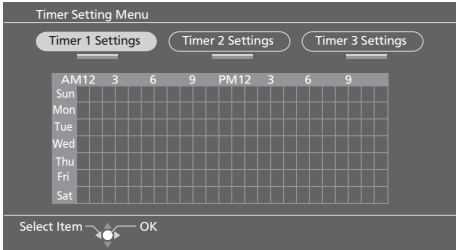
- Set the clock. (→P7)
- Select the photo category.
- Prepare playback sources on an iPod/iPhone.

1. Press [MENU].

2. Press [▲, ▼, ◀, ▶] to select “Settings Menu” and press [OK].

3. Press [▲, ▼, ◀, ▶] to select “Timer” and press [OK].

4. Press [◀, ▶] to select “Timer 1 Settings” and press [OK].



5. Press [▲, ▼] to select “Standby” and press [OK].

6. Press [▲, ▼] to select “Enable This Timer” and press [OK].

7. Press [▲, ▼] to select “Day” and press [OK].

8. Press [▲, ▼] to select the day, add the check mark with [◀, ▶] and press [OK].

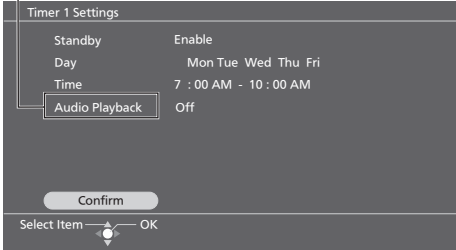
9. Press [▲, ▼] to select “Time” and press [OK].

10. Press [▲, ▼, ◀, ▶] to set the start/end time and press [OK].

11. Press [▲, ▼] to select “Confirm” and press [OK].
If the operation time overlaps other timer settings, “The set time overlaps with another timer. Do you want to give priority to this timer and register it?” appears.

- If “Yes” is selected, other timers with the overlapped time are disabled.
- If “No” is selected, the previous screen is restored with the timer setting contents saved.

A



④ To set audio playback → P19

12. Press [MENU] to close the menu screen.

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18

■ To set audio playback

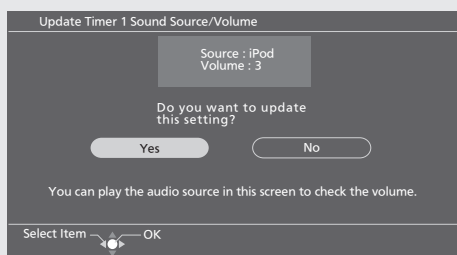
1. After performing step 10 (→P18), press [▲, ▼] to select “Audio Playback” and press [OK].
2. Press [▲, ▼] to select “Audio Playback” and press [◀, ▶] to select “On”.
 - If you select “Off”, proceed to the below step 7.
3. Press [▲, ▼] to select “Playback Time” and press [◀, ▶] to select the playback time.

10 minutes/30 minutes/1 hour/2 hours/3 hours/No Limit

 - If the audio playback time is set longer than the length of time from timer start time to timer end time, the timer end time takes priority.
4. Press [▲, ▼] to select “Update Source/Volume” and press [OK].
5. Press [+ IN/VOL], [– OUT/VOL] to adjust the volume.

(You can also press [VOLUME +]/[VOLUME –] on the main unit.)

 - Press [iPod/▶/■] and you can play audio and confirm the volume.



6. Press [◀, ▶] to select “Yes” and press [OK].
7. Press [▲, ▼] to select “Confirm” and press [OK].
8. Perform the steps 11 and 12 (→P18).

■ To disable the set timer

1. Select “Disable This Timer” in step 6 (→P18) and press [OK].
2. Press [▲, ▼] to select “Confirm” and press [OK].

■ To delete the timer setting

1. Select “Initialize This Timer” in step 6 (→P18) and press [OK].
2. Press [▲, ▼] to select “Confirm” and press [OK].

■ When the timer is set

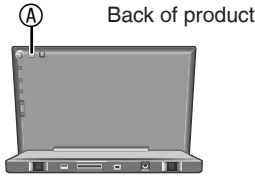
- When the unit is off, the unit is automatically turned on at the timer start time, and the timer playback starts.
 - At the timer end time, the unit is automatically turned off.
 - If the audio playback is “On”, “⌂” is displayed on the bottom right of the screen one minute before the timer start time. (Only for “iPod Display” screen when the unit is on)
- At the timer start time, the sound is faded in to the set volume (gradually increased) and audio is played back. “⌂” blinks during audio playback. (Only for “iPod Display” screen)

Note

- The timer less than 10 minutes is displayed with 10 minute-width on the timer setting menu screen.
- The timer operates at the set time unless you set it to disable.
- The setting status such as the playback mode is reflected in audio playback.
- The timer audio playback does not start when the menu screen is being displayed and when audio selection screen is being displayed.
- The timer does not start even at the timer start time if the audio selector selecting “Audio Playback” and the audio selector selected at the timer start time are the same and if the iPod/iPhone is being played or searched.

Power saving use

Using the light sensor, adjust the brightness of the main unit's display according to the surrounding brightness and set the auto power off when the surrounding area becomes dark.



A Light sensor

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select "Settings Menu" and press [OK].
3. Press [▲, ▼, ◀, ▶] to select "Power Save Settings" and press [OK].
4. Press [▲, ▼] to select "C.A.T.S" or "Auto Power Off" and press [◀, ▶] to select the setting.
5. Press [MENU] to close the menu screen.

Setting items

Factory settings are indicated with underlines.

C.A.T.S (Contrast Automatic Tracking System)	<p>When this is set to On, the darker the surrounding area becomes, the darker the screen becomes. (3 levels)</p> <p>On (Display): When the power consumption is reduced, the number of "🍃" increases (up to 3).</p> <p>On (No display): "🍃" is not displayed.</p> <p>Off: The screen brightness is fixed.</p>
Auto Power Off	<p>Enable: When the surrounding area becomes dark and the following conditions continue 1 minute or more, the power is automatically turned off.</p> <ul style="list-style-type: none"> – No operation – Not during audio playback of iPod/iPhone <p>Disable: The power is not automatically turned off.</p>

When the auto power off is set to Enable

- "The power will soon be turned off automatically" is displayed at the bottom of the screen 1 minute before the auto power off function is activated.

Note

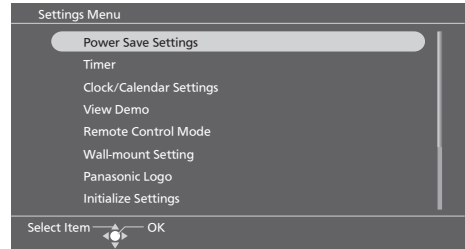
- "🍃" presents approximation.
- While copying photos, etc., "Auto Power Off" does not function even without operation.
- If the light sensor is blocked with finger, etc., brightness cannot be detected.
- With the power save setting enabled, when you set the unit at a place where light is difficult to reach the rear side of the unit, such as in a cabinet or near a dark-colored wall, the screen may become dark automatically or the power may be turned off automatically, even if the surrounding area is bright.

Using the setup menu

You can format the internal memory, initialize this unit, etc.

Basic operation

1. Press [MENU].
2. Press [▲, ▼, ◀, ▶] to select "Settings Menu" and press [OK].
3. Press [▲, ▼, ◀, ▶] to select the item (→below and P21) and press [OK].



4. Press [▲, ▼, ◀, ▶] to select the item or setting.
5. Press [MENU] to close the menu screen.

Factory settings are indicated with underlines.

Power Save Settings	→left
Timer	→P18
	<p>This adjust the clock, set different colors for holidays and Saturdays, etc.</p> <p>■ Set Clock (→P7)</p> <p>■ Holiday Settings Select the date you want to set and set the same color as that for Sundays.</p> <ol style="list-style-type: none"> 1. Select "Holiday Settings" in step 4 in the basic operation and press [OK]. 2. Set "Month", "Day" and "Year" and press [OK]. 3. Select "On" in "Holiday Setting". 4. Select "Every Year" or "No" in "Repeat". <p>Every Year: Set the same color for the same day/month every year as that for Sundays.</p> <p>No: Set the same color for the set day/month/year as that for Sundays.</p> <p>■ Saturday Setting (On/Off) Displayed with a different color from that for Monday to Friday when it is On.</p> <p>■ Set Date Indication Select "<u>Month/Day/Year</u>" or "Day/Month/Year".</p> <p>■ Set Clock Indication Select "<u>12-hour System</u>" or "24-hour System".</p>
Clock/Calendar Settings	

View Demo*	<p>When “View Demo” is selected in the basic operation (→P20), the Demo is displayed.</p> <p>And the demo function is automatically activated when the following conditions continues 2 minutes or more without operation.</p> <ul style="list-style-type: none"> • When the SD card is not inserted • When the iPod/iPhone is not connected • When there are no photos in the internal memory <p>To stop displaying the demo, press any of the buttons other than the power button on the main unit or the remote control.</p>
Remote Control Mode	<p>Change the remote control mode when malfunction occurs on this unit while using the remote control of other devices.</p> <p>Remote Control 1 / Remote Control 2</p> <p>Example: When setting the remote control mode to 2</p> <ol style="list-style-type: none"> 1. Select “Remote Control 2” in step 4 in the basic operation (→P20) and press [OK]. (“Simultaneously press [CLOCK] and [OK] on your remote control for at least 2 seconds, and change the mode on your remote control.” is displayed.) 2. Press and hold [OK] on the remote control without aiming it at this unit, and press and hold [CLOCK] for more than 2 seconds. 3. Press [OK].
Wall-mount Setting*	→P23
Panasonic Logo	<p>Select “On” or “Off” in step 4 in the basic operation (→P20) and press [OK].</p> <p>On: Lights up logo</p> <p>Off: Lights off logo</p>
Initialize Settings*	<p>This unit’s settings are restored to the factory defaults. The clock setting, wall-mount setting and photo files in the internal memory remain unchanged.</p> <ol style="list-style-type: none"> 1. Select “Yes” in step 4 in the basic operation (→P20) and press [OK]. 2. Select “Yes” again and press [OK].

Format Card*	<p>All the data in the SD card will be deleted.</p> <ol style="list-style-type: none"> 1. Select “Yes” in step 4 in the basic operation (→P20) and press [OK]. 2. Select “Yes” again and press [OK].
Format Internal Memory*	<p>You can initialize (format) the internal memory. All photo data in the internal memory will be deleted.</p> <ol style="list-style-type: none"> 1. Select “Yes” in step 4 in the basic operation (→P20) and press [OK]. 2. “Photos set as protected will also be deleted. Do you really want to perform this operation?” is displayed, and then select “Yes” again and press [OK]. <ul style="list-style-type: none"> • Protected photos are also deleted. • For using the physical format, see page 6.
System Software Info	You can confirm the system software information (version) of this unit.
Update System Software*	<p>This is a function when updating the system software is necessary in the future to improve the performance.</p> <p>Please make sure to complete user registration which is necessary to receive information related to the system software update.</p>

* The audio is automatically stopped (paused) if it is being played back.

■ When setting the remote control mode to 1

1. Select “Remote Control 1” in step 4 in the basic operation (→P20) and press [OK].
2. Press and hold [OK] on the remote control without aiming it at this unit, and press and hold [SLIDESHOW] for more than 2 seconds.
3. Press [OK].

Note

- When the same day/month/year is set for “Holiday Settings” and “Saturday Setting”, “Holiday Settings” takes priority.
- When the display mode is set to vertical arrangement (→P8), or “Adjust Brightness” (→P14) is set to “1”, the Panasonic Logo does not light on even if “Panasonic Logo” is set to “On”.
- For the latest version of information, see the following homepage.
<http://panasonic.jp/support/global/cs/audio/>

Using with your PC

Photo files can be exchanged among this unit's internal memory, SD and computer.

Always use a genuine Panasonic USB connection cable (K2KZ4CB00015; optional).

System configurations required

OS for PC

- Windows® 7
- Windows Vista®
- Windows® XP
- Mac OS X

Port

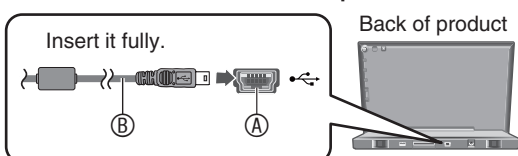
- USB port

- Operations are not necessarily guaranteed for all computers.
- Data exchange with iPod/iPhone is not possible.

■ To connect to a PC

- Turn the unit off.
- Start up the computer.

1. Confirm the direction of the USB connection cable and insert it to the USB port of this unit.



- Ⓐ USB port
- Ⓑ USB connection cable (optional)

2. Insert the USB connection cable to the computer.
3. Turn this unit on.
4. Press [▲, ▼] to select the USB connection memory ("Internal Memory" or "SD Card") and press [OK].
This unit functions as a reader/writer and is recognized as an external device of computer.

■ To remove the USB connection cable

Remove the cable using the safely remove hardware on the task tray of the PC.

If the remove icon is not displayed, check that "ACCESS" is not displayed on the unit and remove it.

Note

- Keep the USB connection cable as far away as possible from other electric appliances when using.
- The iPod/iPhone cannot be charged while connecting with the computer.
- You cannot operate this unit while connecting with the computer. If the USB connection cable is removed, this unit is turned off.
- When switching the USB connection memory, remove the USB connection cable once, then reconnect it and perform from the beginning.

■ To exchange photo files with a computer

- Open the folder to exchange photo files on the computer.
- Connect this unit to the PC.
- Insert the SD card.

1. Select "Internal Memory" or "SD Card" in step 4 (→left).
2. Open "Removable Disk" in "My computer" of your PC.
 - There is the photo folder of this unit or SD card.
 - For Windows Vista® or Windows® 7, open "Removable Disk" in "Computer".
 - For Macintosh, this unit's drive is displayed on the desktop.
3. Open the photo folder on this unit and exchange files between the folders.
 - Folders and files can be dragged and dropped.

Note

- If you remove and insert the USB connection cable or SD card while "Accessing Do not remove the card or cable." message is displayed, the data on the SD card may be lost or damaged.
- If you make multiple USB connections or use hubs with 1 computer, malfunction may occur.
- If you are using the 10.2 or older version of Mac OS X, set the write-protect switch of SDHC memory card to the "LOCK" side when importing photos from the SDHC card to the computer.
- When this unit is connected, do not use the format function of the computer to format this unit's internal memory or SD card.

Recording and operating problems may occur on some computer systems.

Please note that Panasonic and Panasonic dealers cannot be held liable for any lost photo data or other direct or indirect damage except in cases of intentional or gross negligence.

Using in a wall-mounted state

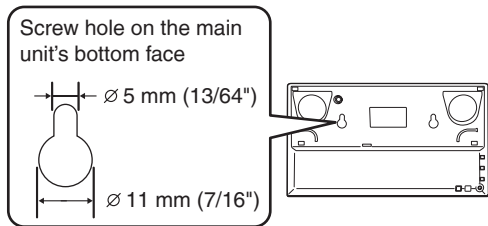
The specific setting is required to use the main unit in a wall-mounted state. Make the wall-mount settings on the menu and install it on the wall.

Make sure to ask a professional mouter or a dealer for installation/uninstallation.

Notes for installation

- Do not install this unit at the following locations to ensure this unit's performance and to prevent potential troubles.
 - Locations other than vertical walls
 - Locations near a sprinkler or a sensor
 - Locations near high-voltage lines or power sources
 - Locations where wind from a heating device hits the unit
 - Locations where the unit is subject to vibration or impact
 - Locations near sources of magnetism, heat, vapor, oil smoke, etc.
 - Locations of high temperature, such as near ceiling lights (spotlight, halogen light, etc.)
 - Locations where there may be water droplet (i.e. under an air conditioner)
 - High places where the SD insertion part cannot be reached easily
- Use a proper installation method that suits the structure and material of the installing location.
- Use a cloth, etc. to prevent damage of the product or floor during installation.
- When tightening screws, make sure the screws are not loosely-tightened or overtightened.
- Secure safety in the surrounding areas and pay enough attention during installation.

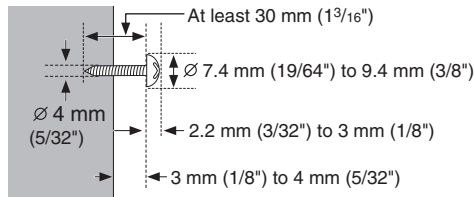
Prepare commercially available screws that match the screw holes of the unit's bottom face.



Recommended type of screw

- 2 screws for wall-mounting
- 2 screws for the fitting for wall-mounting

A length which supports the strength of 5 kg (11.1 lb.) or more must be kept for each screw.



Use commercially available screws with the nominal diameter of 4 mm (5/32") or equivalent which are suitable for materials of the wall (i.e. wood, steel, concrete, etc.)

Note

- Panasonic is not liable for incidental or consequential damages resulting from improper installation or operation.
- Keep the screws out of reach of children to prevent swallowing.

Wall-mount settings

1. Press [MENU].

2. Press [▲, ▼, ◀, ▶] to select "Settings Menu" and press [OK].

3. Press [▲, ▼, ◀, ▶] to select "Wall-mount Setting" and press [OK].

4. Press [▲, ▼] to select "Yes" and press [OK].

Wall-mount Setting

Yes

No

Selecting "Yes" will rotate the display by 180 degrees. The main unit controls cannot be used in this mode.

Select Item

OK

5. Press [◀, ▶] to select "Yes" and press [OK].

The power will be turned off and on automatically. When the power is turned on, the main unit's screen display is turned upside down.

Note

- The audio will be stopped (paused) automatically, during playback.

When using with the wall-mount setting

The following buttons and functions that can be used will be restricted.

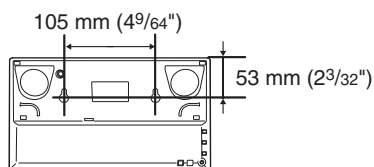
Unusable buttons on the main unit	Except [POWER ⏻/I]
Unusable buttons on the remote control	<ul style="list-style-type: none">[iPod/PLAY MENU][iPod/DISPLAY][iPod/▶/]
Timer audio playback function	Automatically disabled (with the setting contents preserved)
Menu items	<ul style="list-style-type: none">"iPod Play/Pause""iPod Display""iPod Play Menu""Audio Menu""Sync Music" in the "Photo Playback Settings"
Panasonic Logo	Automatically turned off
Power Save Setting	Automatically disabled
iPod/iPhone connection	Cannot be used
USB connection	Cannot be used

Using in a wall-mounted state

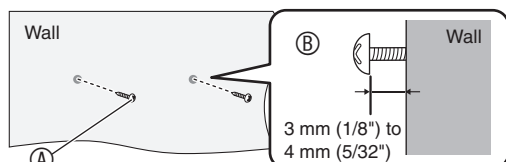
Attaching to a wall

- Make sure to turn the power off to the unit and unplug the AC adaptor.
- Remove the Universal Dock for iPod.

1. Attach the screws for wall-mounting according to the illustration below.

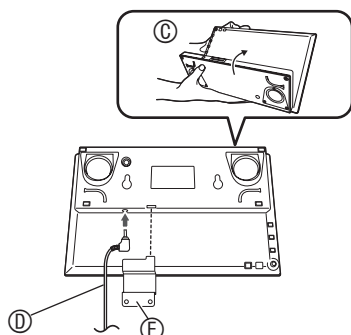


2. Attach the screws for wall-mounting.



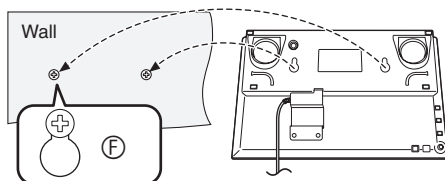
- Ⓐ Screw for wall-mounting
- Ⓑ Fix with the screws stuck out 3 mm (1/8") to 4 mm (5/32") from the wall.
- Make sure to attach 2 screws for wall-mounting.
- Use a level guide, etc. so the screws for wall-mounting become horizontal when attaching.

3. Connect the AC adaptor to the unit, and then insert the fitting for wall-mounting.



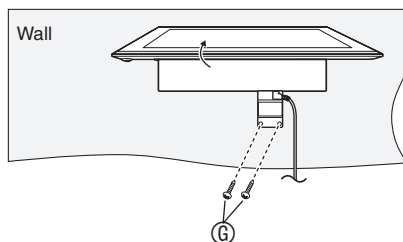
- Ⓒ Fold the stand part and turn upside down.
- Ⓓ AC adaptor
- Ⓔ Fitting for wall-mounting

4. Hook the main unit on the screws for wall-mounting with the fitting for wall-mounting inserted into the main unit.



- Ⓕ Set the 2 screws firmly to this position.

5. Fix the fitting for wall-mounting to the wall.



- Ⓖ Make sure to attach 2 screws for the fitting.

Note

- The vertical arrangement of the main unit is not available when using in the wall-mounted state.

■ When using the unit on a desk after removing from the wall

1. Select "No" for "Wall-mount Setting" in the setup menu (→P23) and press [OK].
2. Turn the unit off and remove the unit from the wall.

Note

- When the "Wall-mount Setting" is changed to "No", the setting automatically returns to the previous state in which the wall-mount setting was not set.
 - Timer audio playback settings
 - Power Save Settings
 - Panasonic Logo

Product Service

Safety cautions

WARNING!

Only a qualified building contractor shall install or uninstall this unit.

Improper installation may cause the unit to fall, resulting in injury.

To prevent injury, the unit must be securely attached to the wall in accordance with the installation instructions.

Do not install the unit where it cannot support the load.

If the mounting parts are not strong enough, this may cause the unit to fall, resulting in injury.

Do not use installation methods other than instructed.

This may cause the unit to fall and be damaged, resulting in injury.

Do not install the unit at locations other than vertical walls.

This may cause the unit to fall and be damaged, resulting in injury.

Take the safety factor for mounting strength into account (approx. 10 times the product weight).

Insufficient strength will cause the unit to fall, resulting in injury.

The wall on which the unit is to be attached to should be capable of supporting 5 kg (11.1 lb.) per screw.

Insufficient strength of the walls will cause the unit to fall in the long run.

Do not disassemble or modify the wall-mounting hanger.

This will cause the unit to fall and be damaged, resulting in injury.

CAUTION!

Do not install this unit at humid or dusty locations, or locations where airborne grease or steam may come into contact with the unit, or under an air conditioner where water may drip onto the unit.

This may have negative impact on the unit, resulting in fire or electric shock.

Secure enough space of more than 25.4 mm (1") above the main unit and more than 25.4 mm (1") on the left and right sides respectively. Keep space between the wall and rear of the unit clear of obstructions.

Blocking the exhaust holes on the main unit may result in fire.

Use the designated components for installation.

Otherwise, the main unit may fall and be damaged, resulting in injury.

Prevent the mounting screws or power cord from coming into contact with metal parts inside the wall during installation.

Failure to do so may cause electric shock.

When removing the main unit, remove the wall mounting screws as well.

Otherwise the wall mounting screws may hit a person and lead to injury.

Install the unit at a height where the SD card slot can be seen for safe operation.

Operating at improper position may cause the unit to fall and be damaged, resulting in injury.

- 1. Damage requiring service** — The unit should be serviced by qualified service personnel if:
 - (a) The AC Adaptor has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.

- 2. Servicing** — Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

- 3. Replacement parts** — When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

- 4. Safety check** — After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

The servicer will require all components to service your system.

Therefore, should service ever be necessary, be sure to bring the entire system.

Product information

For product information or assistance with product operation:

Refer to "Customer Services Directory (United States and Puerto Rico)" on page 27.

Maintenance

Unplug the AC adaptor from the household AC outlet and wipe it using a soft and dry cloth.

- When the dirt is heavy, wring water out of a wet cloth to wipe the dirt and then wipe with a dry cloth.
- Do not use solvents including benzine, thinner, alcohol, kitchen detergent, etc. This might cause the exterior case to be deformed or the coating to come off.
- Before using chemically treated cloth, read the instructions that come with the cloth carefully.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to “Customer Services Directory (United States and Puerto Rico)” on page 27.

This unit may become hot if used for a long period of time, however, this is not a problem for use.

■ Common problems with the whole system

All operations are ignored.	<ul style="list-style-type: none"> Press [POWER ϕ/I] of the main unit for more than 10 seconds to turn the unit off. If the problem persists, do the following operations and return the settings to the factory defaults. <ol style="list-style-type: none"> Remove the AC adaptor from the household AC outlet once. Then connect the AC adaptor while pressing down [POWER ϕ/I] of the main unit. Press and hold [POWER ϕ/I] of the main unit until “The settings have been reset.” appears on the display.
When the unit is turned on, “Please wait.” is displayed for a long period of time.	<ul style="list-style-type: none"> When photos are present in the internal memory or the SD card has been inserted, it may take long time for the unit to become operable after it is turned on.
Booming noise occurs during audio playback.	<ul style="list-style-type: none"> There may be the AC power supply cord of another device or fluorescent light near this unit. → Keep the electric appliances as far away as possible from this unit.

■ SD

Data on the SD card cannot be read.	<ul style="list-style-type: none"> Use an SD card compatible with this unit. The file format and the folder hierarchy in the SD card must conform to the specifications of this unit.
Photos cannot be played.	<ul style="list-style-type: none"> Insert the SD card compatible with this unit. (→P3) Insert the SD card correctly. (→P4) Cancel the write protection switch if it is on the “LOCK” side. (→P6)

■ iPod/iPhone

The iPod/iPhone is not recognized even if connected.	<ul style="list-style-type: none"> Check if the iPod/iPhone is compatible with this unit. (→P3)
Video playback becomes impossible on the iPod/iPhone.	<ul style="list-style-type: none"> Confirm the iPod/iPhone video settings.
The display of the iPod/iPhone video playback shows an unexpected one.	<ul style="list-style-type: none"> Confirm the iPod/iPhone video settings. Example: Set the TV signal to “NTSC” on the iPod/iPhone video setting.
iPod/iPhone videos cannot be played back.	<ul style="list-style-type: none"> Check your iPod/iPhone version.
Only images on iPod/iPhone videos cannot be displayed.	<ul style="list-style-type: none"> Select “Videos” in the iPod menu again.

■ Photo

Photos are not displayed on the thumbnail screen.	<ul style="list-style-type: none"> Photos edited on the computer, etc. may not be displayed.
The date displayed using the Date Search differs from the shooting date.	<ul style="list-style-type: none"> A date when a file was updated may be displayed for photos edited on the computer, etc.
Editing (copying, etc.) takes long time.	<ul style="list-style-type: none"> When there are many files and folders, editing may take long time.
Photos are not played back in the order of file names even if the “Slideshow Order” is set to “Normal”.	<ul style="list-style-type: none"> If 9 or more characters are assigned as a photo file name (excluding the file extension) on a computer, etc., the files may not be played back in order of file names.

■ Remote control

Cannot operate the remote control.	<ul style="list-style-type: none"> Insert (+, –) of battery correctly. (→P5) Replace with the new battery. (→P5) If the remote control mode on the main unit does not match the one on the remote control, match the mode of the remote control to the one of the main unit. (→P21)
<ul style="list-style-type: none"> Another device does not operate properly when using the remote control of this unit. The unit does not operate properly when using the remote control of another device. 	<ul style="list-style-type: none"> Change the remote control mode of this unit so another device does not interfere with this unit's operation. (→P21)

■ Error message

A communication error occurred.	<ul style="list-style-type: none"> Connect the iPod/iPhone correctly. (→P15)
Set the mode on your remote control to “Mode 1” (or “Mode 2”).	<ul style="list-style-type: none"> The remote control mode settings do not match the main unit settings. Change the remote control mode on the remote control. (→P21)
F76	<ul style="list-style-type: none"> The unit turns off after the message. Abnormal power circuit. If the message still remains even if the power is turned on again, consult your dealer.

Limited Warranty

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Home Audio Products Limited Warranty

Limited Warranty Coverage (For USA and Puerto Rico Only)

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
Audio Products (except items below)	1 year	1 year
DVD Home Theater System	1 year	1 year
USB Reader-writer, PC Card Adapters (defective exchange)	1 year	Not Applicable
Accessories: Headphones, cartridges, Microphones, Adapters	90 days	90 days
Rechargeable Batteries, DVD-RAM Disc (defective exchange)	10 days	Not Applicable
SD Memory Cards, Rechargeable Battery Packs (defective exchange)	90 days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Carry-In or Mail-In Service

To find a service center please visit <http://www.panasonic.com/help> or call 1-800-211-PANA (7262).

When shipping the unit, carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. If Lithium ion batteries are shipped by air the package must be labeled "Contains Lithium Ion Battery (No lithium metal)". Damaged batteries are prohibited from shipment by US Mail. Batteries must be securely packed in a manner to prevent short-circuiting and a package cannot contain more than 3 Lithium Ion batteries. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD, THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits and Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel,

office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".

THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory (United States and Puerto Rico)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

<http://www.panasonic.com/help>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at:

1-800-211-PANA (7262)

Monday-Friday 9am-9pm, Saturday-Sunday 10am-7pm EST

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases (United States and Puerto Rico)

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

<http://www.pstc.panasonic.com>

Or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)

(Monday-Friday 9am-9pm EST)

Panasonic Service and Technology Company

20421 84th Avenue South, Kent, WA 98032

(We accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

As of November 2009

Specifications

■ PHOTO

LCD screen

LCD size:	9 inch TFT
Number of pixels:	800 × 480
Screen size (W × H):	199.2 mm (7 ²⁷ / ₃₂ ") × 110.2 mm (4 ¹¹ / ₃₂ ")
Aspect ratio:	16 : 9
Maximum number of pixels:	5120 × 3840
Minimum number of pixels:	64 × 64
Maximum decode file size:	10 MB
Usable file format (SD/internal memory):	JPEG: Exif 2.2, JFIF* ¹ • Progressive JPEG No support

Internal memory

capacity:	2 GB
Compatible media:	SD/SDHC/SDXC iPod/iPhone* ² Internal memory

■ MUSIC

Compatible media:	iPod/iPhone* ²
RMS output Power Stereo mode	
Both ch driven	
1 W Per channel:	8 Ω, 1 kHz 10 % THD
Total RMS Stereo mode power:	2 W
Speaker:	Semi-dome type

■ VIDEO

Compatible media:	iPod/iPhone* ²
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■ INTERFACE

SD card slot

Terminal for Universal Dock

USB:	USB mini B type USB 2.0 High Speed
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■ AC ADAPTOR

Input:	AC 110 V to 240 V, 50/60 Hz, MAX 0.45 A
Output:	DC 6 V, 1.8 A

■ GENERAL

Main set rating:	DC 6 V, 1.8 A Max
Power consumption	
Normal* ³ :	Approx. 4.5 W
Maximum* ⁴ :	Approx. 13 W

Power consumption in standby mode*⁵: Approx. 0.1 W

Dimensions

(W × H × D):	244.2 mm (9 ⁵ / ₈ ") × 154 mm (6 ¹ / ₁₆ ") × 88.7 mm (3 ³³ / ₆₄ ")* ⁶ At the thinnest point: Approx. 9.4 mm (3/ ₈ ")
Mass (Weight):	Approx. 583 g (20.4 oz)

Permissible operating

temperature: 0 °C to 35 °C (32 °F to + 95 °F)

Permissible relative

humidity: 35 % to 80 % RH (No condensation)

*¹ 4:2:0, 4:2:2, 4:4:4 type base line JPEG

*² Refer to the list of compatible types.

*³ Factory setting or when playing the internal memory.

*⁴ Slideshow, iPod/iPhone charge and when playing back audio with maximum volume.

*⁵ Without iPod/iPhone charge.

*⁶ For horizontal arrangement, maximum open angle (75°) of LCD panel.

- Specifications are subject to change without notice.
- Some characters are not displayed on this unit due to the restrictions of font data.
- Since the internal memory includes area that contains management information such as file system, the actual capacity that can be used is less. Also, the memory capacity in general is calculated as 1 GB = 1,000,000,000 bytes, however, on this unit, it is calculated as 1 GB = 1,024 × 1,024 × 1,024 = 1,073,741,824 bytes. Therefore, the displayed capacity is less than the general value.

Auto power save: This unit is equipped with the Auto power save function that automatically reduces the power consumption when operations such as audio playback are not performed approx. 10 minutes.

The LCD display on the display part is made with high-precision technology employed, but black dots may sometimes appear on the LCD display or the display may always light (with red, blue and green dots). This is not a malfunction. The pixels on the LCD display are managed with more than 99.99 % of high accuracy, however, the pixel deficiency may occur within 0.01 % of probability. We assure you that these dots are not recorded on the SD card or internal memory.



As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Panasonic Consumer Electronics
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Corporation of North America
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New Jersey 07094
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